Sappi Maastricht BV



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Version: 4.0

Valida S231C

PRODUCT DESCRIPTION

Fibrillated cellulose in water suspension. Valida S231C is derived from wood pulp that has been sourced from sustainably managed forests. The product is a multifunctional bio-based additive which can be widely used in waterborne coatings, Inks, adhesives to provide unique rheological and physical properties.

INCI name: CELLULOSE

CAS No. 9004-34-6

SPECIFICATION

Parameters	Value	Unit	Test method
Product Form	Paste		Visual
Color	White		Visual
Solid Content	7.5-8.5	%	ESTM 9302
Viscosity of 1.0% at 100s ⁻¹ , 20 °C	≥520	mPas	ESTM 5303
pH of 1% suspension	7.0-9.0		pH Meter
Total Fines	≥91	%	ESTM 9003
Preservative	Yes		

ENVIRONMENTAL INFORMATION

Valida S231C is biodegradable and harmless.

INFORMATION FOR HANDLING VALIDA S231C

Valida S231C Dispersion Guidance:

A good dispersion of Valida S231C is critical to utilize its full benefits. We recommend to introduce Valida S231C at an early process step, preferably dispersing Valida S231C together with other fillers or pigments via grinding or high shear mixing.

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Table. Redispersion guideline for Valida S231C:

Dispersion equipment	Speed (rpm)	Batch size (grams)	Dispersion time (min)	Vision check	
Ultra Turrax (T25)	10000	400	5	The correctly dispersed suspension we show efficient thickening effect with a creat like appearance. Visible lumps aggregates are a clear indication of undispersed suspension.	
Dispermat dissolver	2000	400	30		

DOSAGE GUIDELINE

The optimal dosage Valida S231C depends on the required functionality, as well as the nature of the other ingredients in the formulation. Note that adding Valida S231C will not result in an immediate thickening effect. The primary functionality of Valida S231C is stabilization at low viscosity. A combination of Valida S231C and a thickener is recommended when a 'gel-like' system is required.

Valida grade	Composition (wt.%)	Valida S231C /Total Formulation (g/g)	Active content (g/g Formulation)	The amount of water introduced to the formulation by Valida (g/g)
Valida S231C	8 ± 0.5% Cellulose 92 ± 0.5% Water	1.0%	0.08%	0.92%
		3.0%	0.24%	2.76%
		5.0%	0.4%	4.6%
		12.5%	1.0%	11.5%

DELIVERY FORM

Vacuum plastic bags in cardboard boxes (2 bags per box, 20 kg net weight) on pallets.

STORAGE STABILITY

Recommended storage condition: ambient or lower, and avoid freezing and direct exposure to sunlight, the product has a shelf life of 24 months from date of production. Once open, containers or bags containing Valida S231C should be re-sealed to avoid moisture loss and used within 3 months.

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